

NOV 15 1995

Environmental Services of America, Inc.



ENSA Environmental, Inc.

205 Main Street
Brattleboro, VT 05302
Phone: (802) 254-3677
1-800-359-3677
Fax: (802) 254-7630

November 13, 1995

Jason Feingold
VT ANR DEC HMMD SMS
103 South Main St/West Bldg
Waterbury, VT 05671-0404

RE: Site Investigation Summary Report for Paradise Motor Inn in Bennington
DEC #92-1329

Dear Mr. Feingold:

Please find enclosed the following report regarding the subsurface investigation carried forth at the above referenced site.

Please feel free to call me at 254-3677 if you have any questions or comments regarding this report.

Sincerely,
ENSA Environmental, Inc.

A handwritten signature in black ink, appearing to read "Paul D.G. Miller (MGM)".

Paul D.G. Miller
Project Manager

MJM

CC: Philip Pappas

NOV 15 1995

**Site Investigation Summary Report
of
Paradise Motor Inn
141 West Main Street
Bennington, Vermont
DEC #92-1329**

Prepared for

Paradise Motor Inn
141 West Main Street
Bennington, VT 05201

by

ENSA Environmental, Inc.
205 Main Street
Brattleboro, VT 05301

November 13, 1995

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1. Introduction

ENSA Environmental, Inc. (ENSA) was contracted by Paradise Motor Inn of Bennington, VT to conduct a subsurface environmental investigation at the Paradise Motor Inn located on West Main Street in Bennington, Vermont (see Appendix A - Site Locus). The purpose of this environmental investigation was to determine the degree and extent of petroleum contamination identified during in place closure of two #2 fuel oil underground storage tanks (USTs) on November 16-23, 1992.

2. Soil Boring/Monitoring Well Installation

2.1 Soil Borings

On October 17, 1995, three (3) soil borings were advanced, through the use of a hollow stem auger/air rotary drill rig, at strategic locations within the subject property by American Drilling Services, Inc. of Westminister, MA, and under the direction of ENSA. The locations where these borings were installed included the northern side (topographically downgradient) of the UST area in the paved parking lot and the western side of the UST area in between the site buildings on the edge of the sidewalk. A location closer to the UST area was not possible due to extensive landscaping. The location of the borings is shown on the Site Sketch Map included in Appendix B.

2.2 Split Spoon Soil Sampling and Field Screening

Split spoon soil samples were collected from each boring at five foot intervals. Bedrock was encountered in each boring prior to interception of groundwater. Samples were screened for volatile organic compounds (VOC) using a Thermo Environmental Instruments Inc. Organic Vapor Meter (OVM) Model 580B calibrated to 250 ppm of Isobutylene span gas. This meter is capable of detecting VOC concentrations to a limit of 0.1 ppm.

No VOCs were encountered in any of the split spoon soil samples collected from any of the three soil borings. VOC screening results are presented in Table I below and on the Soil Boring/Monitoring Well Logs in Appendix C.

Table 1 Soil Boring Screening Results from Paradise Motor Inn, Bennington, VT

Depth (feet)	VOC Readings at Soil Borings (ppm)		
	SB-1	SB-2	SB-3
0-2	0.0	0.0	0.0
5-7	0.0	0.0	0.0
10-12	-	0.0	-

2.3 Soil Conditions

Soil encountered in the three borings generally consisted of brown silt and clay at a depth range of 4.5 to 11' beneath the ground surface, at which time bedrock was encountered. Groundwater was not encountered above the bedrock or to the extent of drilling. Through the use of the air rotary hammer, drilling proceeded to a maximum of 7' into the bedrock (SB-1 and SB-3). Due to the lack of water or moist soil, monitoring wells were not placed in any of the three soil borings.

2.4 Site Hydrology

Groundwater was not encountered at any of the three soil borings.

3. Sensitive Receptors

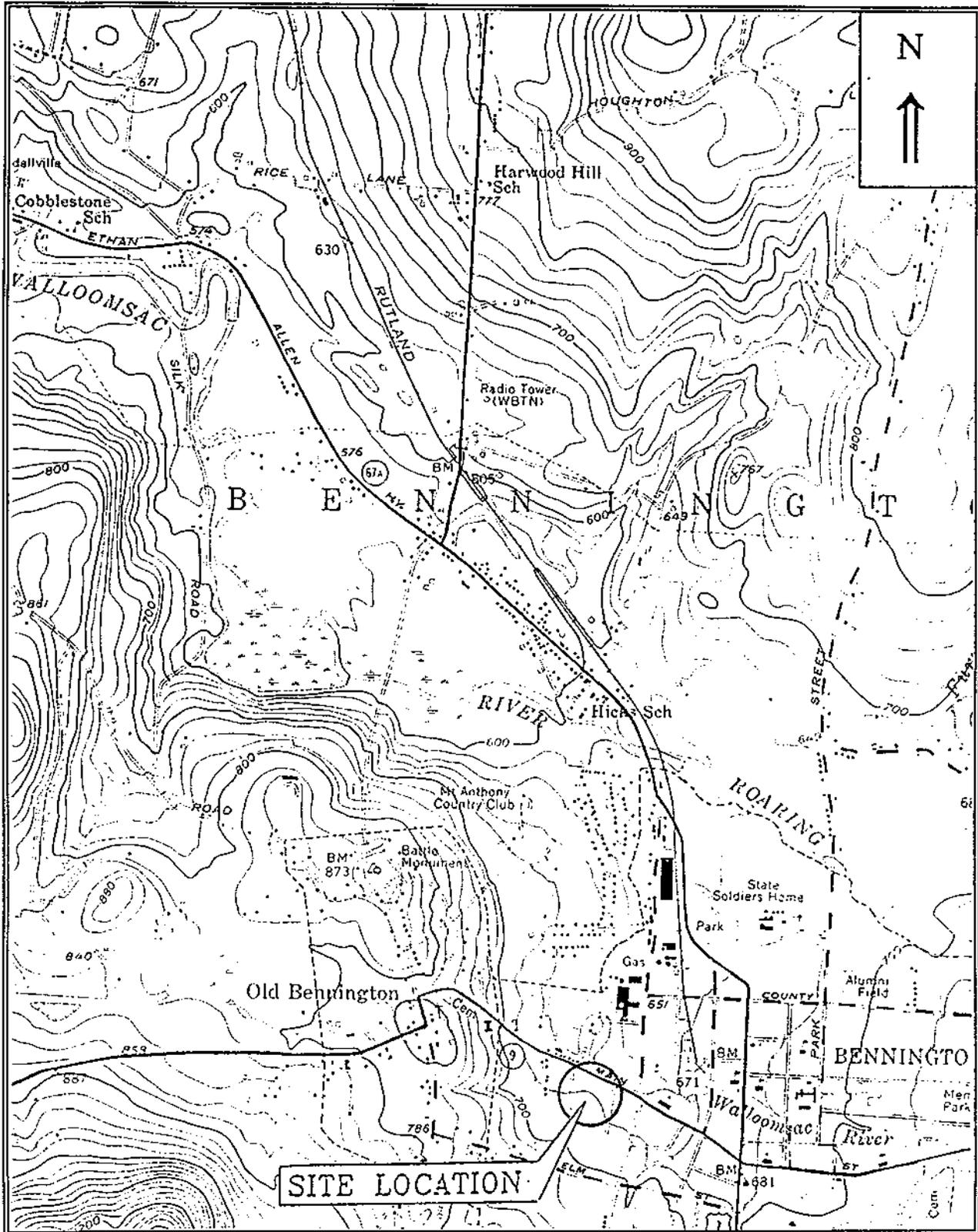
The nearest sensitive environmental receptor is the Walloomsac River within one-half mile of the site. The nearest sensitive human receptors would be the occupants of the site. The site is serviced by municipal water and sewer systems. The basement area of the site buildings immediately to the north and south of the UST area were screened with an OVM. No VOCs were detected in either basement.

4. Polyencapsulated Soilpile

The soil removed during the UST closure and polyencapsulated to the south of the UST area was screened with an OVM. Numerous borings were made in the soil to the base of the pile. No detectable levels of VOCs were measured.

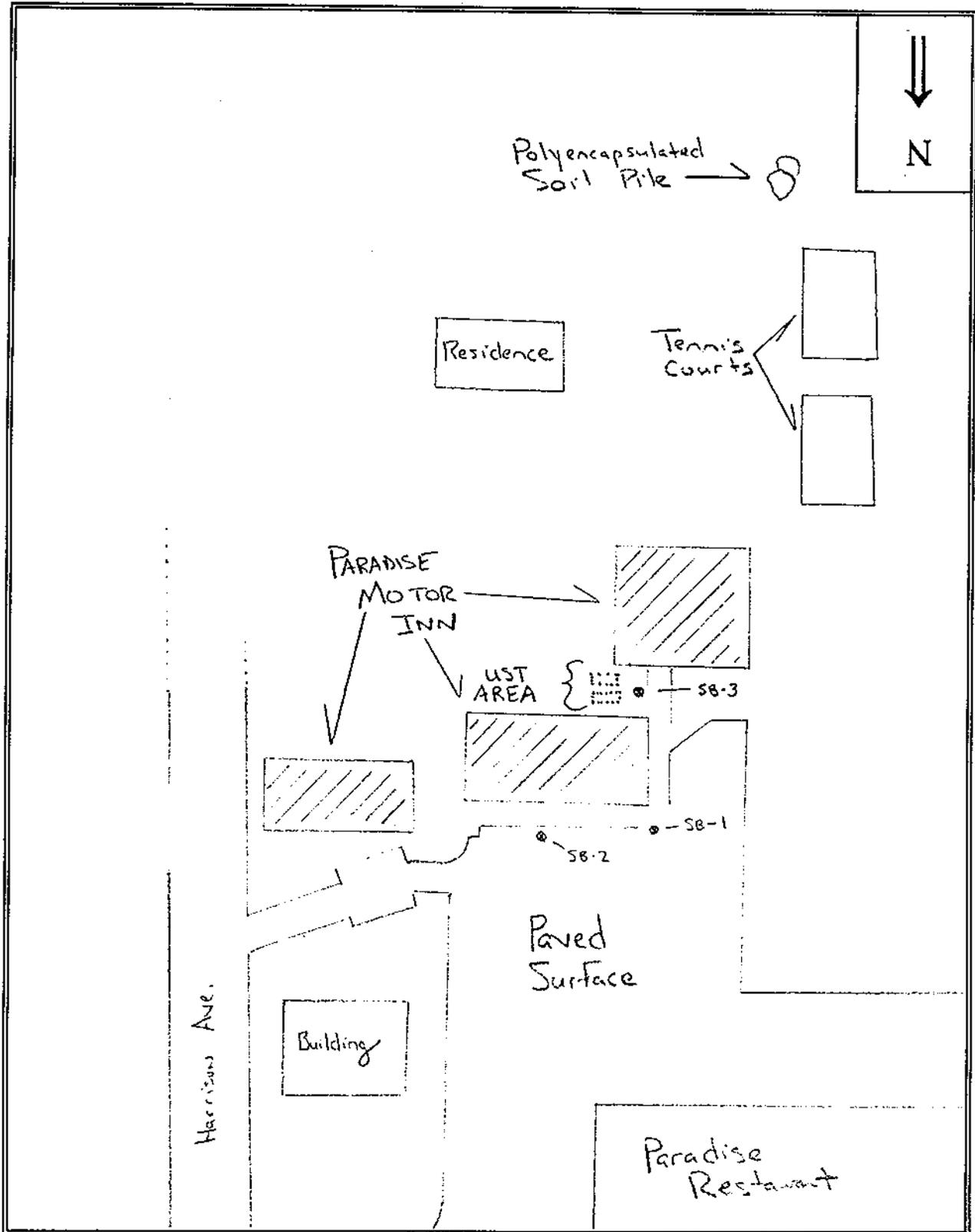
Appendix A

Site Locus



Site Locus Map	USGS Topographic Map Bennington Quadrangle Revised 1954 Scale 1:24,000	141 West Main Street Bennington, Vermont
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Appendix B
Site Sketch Map



Site Sketch Map	Not to Scale	141 West Main Street Bennington, Vermont
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Appendix C

Soil Boring/Monitoring Well Logs

ENSA ENVIRONMENTAL, INC.
SOIL BORING/MONITORING WELL CONSTRUCTION LOG

Project #: <u>950905</u> Date: <u>10/17/95</u> Project Name: <u>Paradise Motor Inn</u> Location: <u>141 West Main Street Bennington, VT</u> Driller: <u>American Drilling Services, Inc.</u> ENSA Personnel: <u>MJM</u> Boring/Well #: <u>SB-1</u> Sheet <u>1</u> of <u>1</u>					SITE LOCUS see Site Sketch Map				
Depth	Blow Counts				Rec. (in.)	OVM (ppm)	Soil Characterization	As Built Diagram	
	0-6	6-12	12-18	18-24					
0-2	Hand dug				Grab	0.0	Brown sandy silt with fine gravel		
4.5					Grab	0.0	Brown silt with clay and fine gravel Hollow stem auger 0-5' Bedrock (Marble) encountered at 4.5' Air rotary hammer 5-12'		
12							Bedrock		
Drilling Method: <u>HSA/AR</u>					Screen Diameter: <u> </u> Length: <u> </u>				
Total Well Depth: <u>12.0'</u>					Riser Diameter: <u> </u> Length: <u> </u>				
Groundwater Depth: <u>n/a</u>					Slot Size: <u> </u>				
PVC Elevation: <u>n/a</u>					Ground Elevation: <u> </u>				

Notes:

1. Split spoon soil samples are screened for organic vapors via headspace method using a Thermo Environmental Instruments Inc. Organic Vapor Meter Model 5808.
2. ND indicates nondetectable contaminant concentrations as read by the OVM.
3. Samples are collected using a Split Spoon Sampler unless otherwise indicated.
4. Split Spoon Sampler has a 2" diameter and is driven using a 140 lb. hammer falling 30 inches.
5. HSA = Hollow Stem Auger, AR = Air Rotary

ENSA ENVIRONMENTAL, INC.
SOIL BORING/MONITORING WELL CONSTRUCTION LOG

Project #: <u>950905</u> Date: <u>10/17/95</u> Project Name: <u>Paradise Motor Inn</u> Location: <u>141 West Main Street Bennington, VT</u> Driller: <u>American Drilling Services, Inc.</u> ENSA Personnel: <u>MJM</u> Boring/Well #: <u>SB-2</u> Sheet <u>1</u> of <u>1</u>	SITE LOCUS see Site Sketch Map
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Depth	Blow Counts				Rec. (in.)	OVM (ppm)	Soil Characterization	As Built Diagram
	0-6	6-12	12-18	18-24				
0-2					Grab	0.0	Brown silt with clay and fine gravel	
5-7	8	20	18	17	10"	0.0	Brown silt with clay and fine gravel	
10-12	11	11	120		8"	0.0	Brown silt with clay Hollow stem auger 0-11' Bedrock (Marble) encountered at 11' Air rotary hammer 11-12'	

Drilling Method: <u>HSA/AR</u> Total Well Depth: <u>12.0'</u> Groundwater Depth: <u>n/a</u> PVC Elevation: <u>n/a</u>	Screen Diameter: <u>-</u> Length: <u>-</u> Riser Diameter: <u>-</u> Length: <u>-</u> Slot Size: <u>-</u> Ground Elevation: <u>-</u>
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Notes:

1. Split spoon soil samples are screened for organic vapors via headspace method using a Thermo Environmental Instruments Inc. Organic Vapor Meter Model 580B.
2. ND indicates nondetectable contaminant concentrations as read by the OVM.
3. Samples are collected using a Split Spoon Sampler unless otherwise indicated.
4. Split Spoon Sampler has a 2" diameter and is driven using a 140 lb. hammer falling 30 inches.
5. HSA = Hollow Stem Auger, AR = Air Rotary

ENSA ENVIRONMENTAL, INC.
SOIL BORING/MONITORING WELL CONSTRUCTION LOG

Project #: <u>950905</u> Date: <u>10/17/95</u> Project Name: <u>Paradise Motor Inn</u> Location: <u>141 West Main Street Bennington, VT</u> Driller: <u>American Drilling Services, Inc.</u> ENSA Personnel: <u>MJM</u> Boring/Well #: <u>SB-3</u> Sheet <u>1</u> of <u>1</u>	SITE LOCUS see Site Sketch Map
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Depth	Blow Counts				Rec. (in.)	OVM (ppm)	Soil Characterization	As Built Diagram
	0-6	6-12	12-18	18-24				
0-2	Hand dug				Grab	0.0	Brown silt with clay	
5	Hand dug				Grab	0.0	Brown silt with clay Hand dug 0-5' Bedrock (Marble) encountered at 5' Air rotary hammer 5-12'	
12							Bedrock	

Drilling Method: <u>Hand dug/AR</u> Total Well Depth: <u>12.0'</u> Groundwater Depth: <u>n/a</u> PVC Elevation: <u>n/a</u>	Screen Diameter: <u>-</u> Length: <u>-</u> Riser Diameter: <u>-</u> Length: <u>-</u> Slot Size: <u>-</u> Ground Elevation: <u>-</u>
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1. Split spoon soil samples are screened for organic vapors via headspace method using a Thermo Environmental Instruments Inc. Organic Vapor Meter Model 580B.
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